

PROGRAMMING WITH C
FOURTH YEAR
SEMESTER – I (2019 – 20)

Time: 3:00 Hrs.

Max. Marks: 80

Instructions:

1. All questions of Section – A are compulsory.
2. Attempt any four questions from Section – B.

SECTION – A

20

Questions:

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| 1. What is a Programming Language name any four? | 02 |
| 2. Define Identifier. | 02 |
| 3. Define: | 04 |
| a.) Use of getch(). | 01 |
| b.) Use of clrscr(). | 01 |
| c.) Use of return statement. | 01 |
| d.) Use of 'conio.h'. | 01 |
| 4. What are Expressions in C? | 02 |
| 5. What are Constants in C? | 02 |
| 6. Define the relevance of Algorithm. | 02 |
| 7. Define the following: | 04 |
| i. Decimal Integer Constant | 02 |
| ii. Hexadecimal Integer Constant | 02 |
| 8. Differentiate between “void function_name()”, “int function_name()” and char function_name(). | 02 |

SECTION – B

60

Questions:

Question 1: 15

- a.) Write an algorithm to reverse the digits of a number. 08
- b.) Write an algorithm to print n natural numbers. 07

Question 2: 15

- a.) What is Library Function, elaborate any three? 07
- b.) Define problem solving aspect in detail. 08

Question 3: 15

Write a C program to find the area of following using switch case:

- i. Rectangle
- ii. Square
- iii. Circle
- iv. Ellipse

Conditions:

- i.) Ask user to enter the values for sides or radius.
- ii.) Let the user decide if to end the program.

Question 4: 15

- a.) Write a C – Program to generate a Fibonacci series up to n terms. 08
- b.) What is Array, write a program for illustrating array declaration? 07

Question 5: 15

a.) What are C input and output functions, define any four? 09

b.) Define unary, assignment and conditional operators. 06

Question 6: 15

a.) Define Top-Down design of problem solving in detail. 10

b.) What are control statements? Write a C program to depict the use of while statement. 05
